Procurement Data Standard Artifacts

- **Contract Schema (.xsd)**
- **Enumeration and Annotation Document (.doc)**
- **Business Rules Document (.doc)**
- **Schema Diagrams (.png)**
  - Header
  - CDRL and CLIN

Tools for Viewing Schema

- **Altova XMLSpy**

  - Not free.

  - http://www.altova.com/products/xmlspy/xml_editor.html

- **Liquid XML Studio**

  - Free Download of Graphical XML Schema (XSD) Editor

  - http://www.liquid-technologies.com/Product_XmlStudio.aspx

- **For others:**
  http://esw.w3.org/topic/XML_Schema_software

Understanding the PDS Schema

ContactMethod ⊞
1..∞

- Solid Box denotes a mandatory element or section.
- x-∞: Must provide 'x' or more instances of the element or section. In this case, one instance is required. More may be provided.
- ⊞ : Denotes that this is a section not an element. If absent, denotes that the item is an element that can be populated with data.
- "ContactMethod": XML Tag Name of the section.

TitleOrFunction
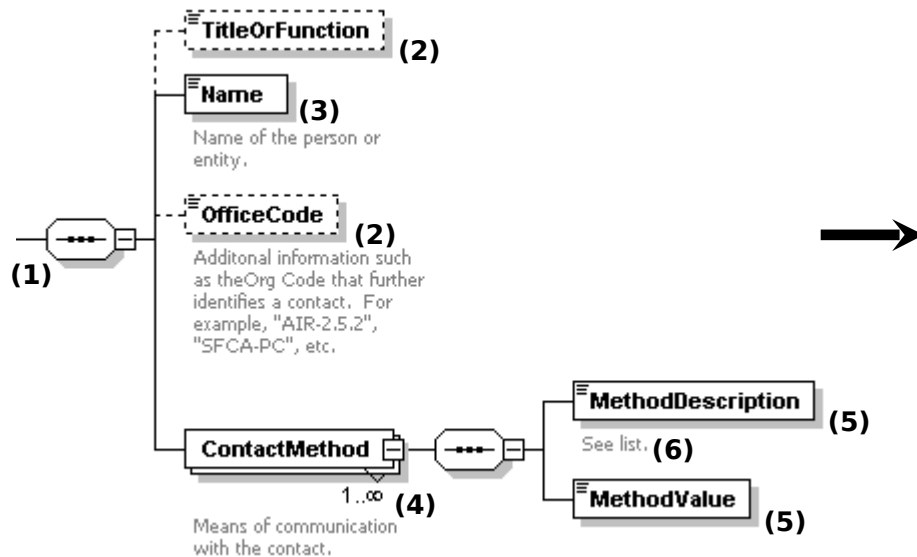
- Dotted Box denotes an optional element or section.
- Only one instance of the element or section allowed (0-∞, 1-∞, etc. missing).
- This is an element that can contain data, not a section since ⊞ is missing.
- "TitleOrFunction": XML Tag Name of the element.

- Sequence.
- Elements and sections following the sequence must be provided in the order shown.

- Choice
- Only one of the Elements and sections following the sequence may be provided.

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Understanding the PDS Schema

Sample XML snippet:

```
<Contact>
        <TitleOrFunction>Contracting Officer</TitleOrFunction>
        <Name>Joseph Smith</Name>
        <ContactMethod>
        <MethodDescription>Email</MethodDescription>
        <MethodValue>JSmith@anywhere.mil</MethodValue>
        </ContactMethod>
        </ContactMethod>
        <MethodDescription>Telephone</MethodDescription>
        <MethodValue>540-329-0110 x231</MethodValue>
        </ContactMethod>
</Contact>
```
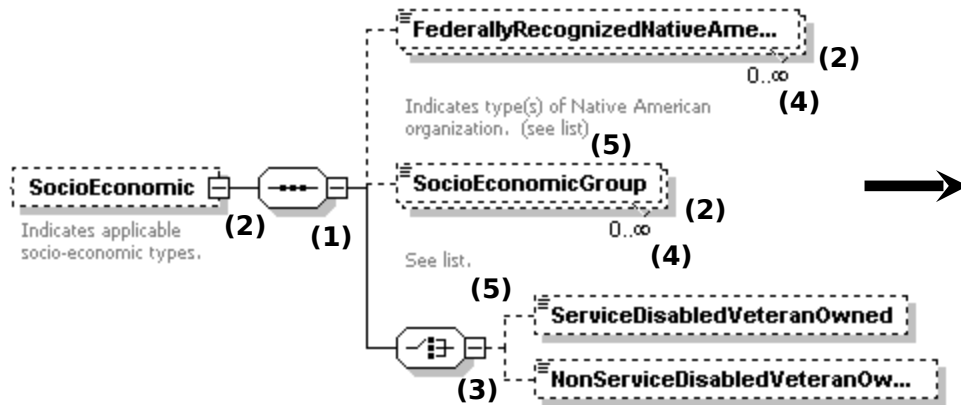
1. **Sequence of 3 elements and 1 section.**
2. **Optional data elements "TitleOrFunction" and "OfficeCode".**
3. **Mandatory data element "Name".**
4. **1-∞: Must provide one or more instances of the "ContactMethod" section.**
5. **For each "ContactMethod" section, the data elements "MethodDescription" and "MethodValue" are required.**
6. **When the phrase "See list." or "(see list)" is at the end of a data element's description, there is an enumeration list (pick list) of acceptable values.**

Understanding the PDS Schema

Sample XML snippet:

```
<SocioEconomic>
      <SocioEconomicGroup>Labor Surplus Area
      Firm</SocioEconomicGroup>
      <SocioEconomicGroup>Women Owned
      Business</SocioEconomicGroup>

      <ServiceDisabledVeteranOwned>Yes</ServiceDisabledVeteranO
      wned>
</SocioEconomic>
```


1. **Sequence of 3 elements.**
2. **Option Section "SocioEconomic". Optional data elements "TitleOrFunction" and "OfficeCode"**
3. **Choice of two elements. Since the individual elements are optional, don't have to choose either. If they were mandatory (closed box), would have to choose one.**
4. **0-∞: May provide one or more instances of the "FederallyRecognizedNativeAmericanEntity" and "SocioEconomicGroup" elements.**
5. **When the phrase "See list." or "(see list)" is at the end of a data element's description, there is an enumeration list (pick list) of acceptable values.**